WHAT IS CLAIMED IS

- 1. A semiconductor device comprising:
- a thick film wiring having a first film thickness;
- a thin film wiring having a second film thickness that
 is smaller than the first film thickness, said thick film wiring
 and said thin film wiring being formed in a single layer; and
 - a hard mask covering the surface of said thick film therewith;

wherein said hard mask is resistant to etching adapted
forpatterning of said thickfilmwiring and also to etching adapted
for patterning of said thin film wiring, while being resistant
to heat.

- The semiconductor device according to Claim 1, wherein said hard mask comprises a silicon oxide film.
- 3. The semiconductor device according to Claim 1, wherein said hard mask comprises a silicon nitride film.
 - 4. The semiconductor device according to Claim 1, wherein said hard mask comprises a tungsten film.
- The semiconductor device according to Claim 1, wherein
 said thick film wiring serves as a wiring for an electric supply of said semiconductor device or as a wiring for ground.
 - 6. A semiconductor device comprising:
 - a thick film wiring having a first film thickness;
- a thin film wiring having a second film thickness smaller
 than said first film thickness, said thick film wiring and said
 thin film wiring being formed in a single layer; and
 - a metallic anti-reflective film covering the surface of said thin film wiring.
- 7. The semiconductor device according to Claim 6, wherein 30 said thick film wiring has a flattened portion having a film thickness equal to said thin film wiring, and a protruded portion formed on said flattened portion, said protruded portion having

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such a layout that an occupying area thereof is smaller than that of said flattened portion.

- 8. The semiconductor device according to Claim 7, wherein a boundary between said flattened portion and said protruded portion is constituted of a single metal material, and a metallic anti-reflective film is provided to cover the surface of said thick film wiring.
- 9. The semiconductor device according to Claim 7, wherein a metallic anti-reflective film is interposed at the boundary between said flattened portion and said protruded portion to cover the entire surface of said flattened portion therewith.
 - 10. The semiconductor device according to Claim 6, wherein said thick film wiring serves as a wiring for an electric supply of said semiconductor device or as a wiring for ground.
 - 11. A semiconductor device comprising:
 - a thick film wiring having a first film thickness;
 - a thin film wiring having a second film thickness smaller than said first film thickness, said thick film wiring and said thin film wiring being formed in a single layer; and
 - an inter-layer insulating film surrounding said thick film wiring and covering said thin film wiring;

wherein said thick film wiring also serves as a plug which functions as a plug capable of connection with a wiring layer formed as an upper layer on said inter-layer insulating film.

- 25 12. The semiconductor device according to Claim 11, further comprising a metallic anti-reflective film covering a surface of said thin film wiring.
 - 13. The semiconductor device according to Claim 12, further comprising a metallic anti-reflective film covering a side surface of said thick film wiring for plug.
 - 14. The semiconductor device according to Claim 13, wherein:

said thin film wiring includes a portion formed adjacently
to said thick film wiring for plug;

said anti-reflective film formed on the surface of the portion of said thin film wiring and said anti-reflective film covering the side surfaces of said thick film wiring for plug form a continuous film.

15. The semiconductor device according to Claim 12, wherein said thick film wiring for plug comprises:

a metal film base portion having the same film thickness
10 and kind of material as said thin film wiring;

a metallic anti-reflective film covering the surface of said base portion; and $% \left(1\right) =\left(1\right) =\left(1\right)$

a second metal film portion formed on said anti-reflective film.

15 16. The semiconductor device according to Claim 15, wherein:

said thin film wiring includes a portion formed adjacently to said thick film wiring for plug;

said anti-reflective film interposed between said base
20 metal portion and said second metal portion of said thick film
wiring for plug and said anti-reflective film covering the side
surfaces of said thick film wiring for plug form a continuous
film.